



11/14/2022

Subject: Change to SAE/USCAR-49, Initial release, Letter #3

Changes have been made to the USCAR-49 specification. Comments and questions can be sent to EWCAP@uscar.org.

Situation:

USCAR-49 section C.1 describes the method for “Surface Transfer Impedance” (STI) measurement. The current wording is: Details presented are currently limit testing of individual connectors including those used on the PCB.” This is confusing and incorrect. Therefore, a change has been made. The STI test evaluates in-line connections, as used with a specific cable. The test is important when there is a cable-to-connector interface and it is undefined for PCB connectors that do not have a cable interface.

Resolution:

Change Section C.1 to clarify and remove the statement that PCB connectors can be tested for STI. C.1 now reads as the following:

Verification testing for inline connectors is based on IEC 62153-4-6 (Line Injection) and IEC 62153-4-4, except where delineated. IEC 62153-4-7 may be used as an alternate test method, if agreed upon between customer and supplier. This test applies only to inline connectors (the test does not have physical meaning for board-mounted connectors with no cable interface).